

34

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 September 2003 (18.09.2003)

PCT

(10) International Publication Number
WO 03/075862 A2

(51) International Patent Classification⁷: **A61K 7/00**

(21) International Application Number: **PCT/GB03/00993**

(22) International Filing Date: **10 March 2003 (10.03.2003)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
0205504.4 **8 March 2002 (08.03.2002)** **GB**

(71) Applicant (*for all designated States except US*): **ACCANTIA HOLDINGS LIMITED** [GB/GB]; Alum Rock Road, Birmingham B8 3DZ (GB).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **HEBDITCH, Paul** [GB/GB]; 3 Elizabeth Way, Uppingham, Rutland LE15 RPQ (GB). **CHISHOLM, Helen** [GB/GB]; 8 Rockingham Road, Cottingham, Leicestershire LE15 8XS (GB).

(74) Agent: **HARRISON GODDARD FOOTE**; 31 St. Saviourgate, York YO1 8NQ (GB).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **FORMULATION**

(57) Abstract: There is described a skin care product comprising at least one plant extract characterised in that said plant extract is present at less than homeopathic levels.

WO 03/075862 A2

Formulation

This invention relates to novel skin care product formulations for topical application containing homeopathic quantities of plant extracts that enhance the skins natural
5 repair processes.

The inevitable ageing process of the skin, normally initiated around the age of 30, is characterised by the thinning and wrinkling of the epidermis, combined with the appearance of lines, creases, furrows and age spots. The process is associated with a
10 reduction in the skins' ability to repair and regenerate itself, the gradual breakdown of collagen and elastin in the dermal layer, fat loss and the malfunctioning of melanocytes. A number of intrinsic and extrinsic factors contribute to this ageing process. Intrinsic factors include alterations in the body's hormonal balance, whilst the extrinsic factors include the long-term exposure to ultraviolet light and the
15 accumulation of free radicals within the skin.

A plethora of skin care products are known in the art which claim to be able to repair, renew and revitalise ageing skin. Many of these products contain antioxidants, such as vitamins A, C and E, which neutralise the effects of free radicals. A number of these
20 skin care products also comprise plant extracts, however the levels of the active components are considered herbal rather than homeopathic. For example, a skin cream composition manufactured by Chanel Inc. (US patent No. 5922331) contains both calendula and aloe vera at a herbal level of 0.2% w/w of the composition, whilst homeopathic levels are considered to be at least 10-fold less. Whereas a homeopathic
25 composition can be defined as containing minute doses of active natural drugs/substances, a herbal composition can be defined as consisting of, or made with aromatic herbs.

Likewise, a cosmetic and dermatological composition for psoriatic skin, scalp
30 treatment and care, described in WO0166079, contains herbal rather than homeopathic levels of plant extracts, ranging from about 0.1 to about 10 % by weight

of aqueous-alcoholicglyceric extract of the mixture comprising nettle, chelidonia, oak bark, willow bark, calendula, dandelion root, camomile, achillea, dill and parsley.

5 A further patent, US5723138, provides an adhesive type cosmetic product for removing wrinkles prepared by coating 5-50 parts by weight of the composition comprising 5-40% by weight of vitamin E, 5-50% by weight of vitamin A and 15-60% by weight of concentrated natural aloe extract, and 50-95 parts by weight of an adhesive in a mixture or in a laminate structure on a carrier film

10 Homeopathic dilutions are often so extreme that they are dismissed by critics as being only a placebo effect. The "doses minimae" or indeed the 'law of infinitesimality', describes the fact that the remedy is given in infinitesimal doses, thereby reducing the remedy's toxicity whilst causing it to act in reverse. The principle of preparation of infinitesimal dilutions was described in Organon, and has
15 changed little, even though it is applied industrially today. Each dilution is a hundredth of the previous one, and is called the first, fourth, thirtieth, or hundredth dilution, depending on the serial order. It is from this process that the name "Hahnemann's centesimal" originates.

20 According to a first aspect of the invention, we provide a skin care product for topical application comprising at least one plant extract present at homeopathic levels.

Preferably, the plant extract is a component of a homeopathic mix, wherein said homeopathic mix constitutes less than 1% w/w of the total composition.

25 More preferably, said homeopathic mix constitutes between 0.25% and 0.5% w/w of the total composition.

More preferably still, said homeopathic mix constitutes 0.38% w/w of the total
30 composition.

Preferably the level of the plant extract is in the range from 0.0001% - 0.1% w/w of said homeopathic mix.

5 Any conventionally known plant extracts may be used, for example, any homeopathic plant extracts.

In a preferred embodiment of this invention, the plant extracts are selected from the group consisting of; calendula spp, aloe spp, thuya spp, articum spp, viola spp, hamamelis spp, vinca spp, articum spp, camphor spp and nerium spp.

10

More preferably still, the plant extracts are selected from the group consisting of; calendula officianalis, aloe barbadensis, thuya occidentalis, viola tricolor, camphor, hamamelis virginia, vinca minor, articum lappa and nerium oleander.

15 The plant extracts have been derived from a number of sources that have already proven and defined homeopathic properties.

Calendula (*calendula officianalis*) with the common name of Marigold is a herbaceous annual with yellow petals. It is a member of the Compositae family and is native to Europe and naturalized in the United States. The Calendula plant contains essential oils, carotenoids, calenduline, lycopene, saponins, and resins. Calendula's useage is mostly topical in ointments or cremes for skin rashes, abrasions, minor burns, and eczemic conditions.

20

25 There are over 200 different species of Aloe, but of these only four are recognized as being of nutritional value to humans and animals. *Aloe barbadensis*, with the common names of Aloe Vera or Burn plant Aloe is a stemless, stoloniferous, clump-forming plant the medicinal properties of which have been known for some 3500 years ago. The plant was widely used by the Chinese, Egyptians, Greeks and Romans for healing skin-associated problems such as wounds, rashes, skin irritations, sunburns but also for headaches and stomach complaints. The medicinal properties

30

are found in the resinous sap or yellow juice of the leaves, which contains a mixture of phenolic compounds and polysaccharides, considered to have a soothing and anti-inflammatory effect, which has led them to be used in different cosmetic creams and moisturizers as well as shampoos.

5

Thuja Occidentalis with the common name of Cedar Leaf is characterised by its medicinal properties of being an antiseptic, astringent, emollient, expectorant, 10 fungicide, insecticide, sedative, and tonic. It has been shown that chronic conditions such as dermatitis or psoriasis can be diminished, as well as seborrhea of the scalp, dandruff and alopecia.

Arctium lappa having the common name of Burdock is considered as a remedy for 15 eczema, psoriasis, dandruff, rheumatic complaints and cystitis.

Viola tricolor having the common name of violet contains; saponins, salicylates, alkaloids, flavonoids, tannins and mucilage (a plant exude containing protein and carbohydrates), and has been widely used for the treatment of eczema, rashes, 20 psoriasis, acne, skin irritations and itching.

Camphor is a white crystalline substance obtained from the evergreen tree *Cinnamonum camphora*. Camphor has a strong, penetrating, fragrant odour, a bitter pungent taste and is slightly cold to the touch like menthol leaves. Camphor is often 25 used internally for its calming influence in hysteria, nervousness, neuralgia and diarrhoea and externally as a counter-irritant in rheumatisms, sprains, bronchitis, and inflammatory conditions.

Vinca minor is commonly referred to as the lesser or dwarf periwinkle, its actions 30 relating to the skin include being analgesic, anti-bacterial, anti-microbial, anti-inflammatory, and an astringent.

Hamamelis virginiana is commonly referred to as witch hazel and it contains varying amounts of active compounds such as flavonoids, tannins (hamamelitannin and proanthocyanidins), small amounts of volatile oil, and other components, which may be responsible for its astringent action.

5

The evergreen shrub *Nerium Oleander* or commonly called Rose Laurel or Oleander contains the ingredients oleandrin and nerioside. These ingredients are highly toxic at herbal levels but homeopathically are used to treat itching, bleeding and/or chapped skin.

10

In a preferred embodiment of the invention, a skin product is provided, wherein said skin product is a cleansing balm, and said cleansing balm contains calendula officinalis and at least one other plant extract selected from the group consisting of; aloe spp, thuya spp, articum spp, viola spp, hamamelis spp, vinca spp, articum spp, camphor spp and nerium spp, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

15

More preferably, the cleansing balm contains calendula officinalis and at least one other plant extract from the group consisting of; aloe barbadensis, thuya occidentalis, articum lappa, viola tricolor, hamamelis virginiana, vinca minor, camphor and nerium oleander, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

20

More preferably still, the cleansing balm contains calendula officinalis and thuya occidentalis at 0.01% and 0.0001% w/w respectively of said homeopathic mix.

25

In a second preferred embodiment of the invention, a skin product is provided, wherein said skin product is a face mask, and said face mask contains thuya occidentalis and at least one other plant extract selected from the group consisting of; aloe spp, calendula spp, articum spp, viola spp, hamamelis spp, vinca spp, articum spp, camphor spp and nerium spp, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

30

More preferably, the face mask contains *thuya occidentalis* and at least one other plant extract from the group consisting of; *aloe barbadensis*, *calendula officinalis*, *articum lappa*, *viola tricolor*, *hamamelis virginiana*, *vinca minor*, camphor and
5 *nerium oleander*, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

More preferably still, the face mask contains *thuya occidentalis* and camphor at 0.0001% and 0.01% w/w respectively of said homeopathic mix.
10

In a third preferred embodiment of the invention, a skin product is provided, wherein the skin product is a purifying wipe, and said purifying wipe is a tissue impregnated with extracts of *calendula officinalis* and at least one other plant extract selected from the group consisting of; *aloe spp*, *thuya spp*, *articum spp*, *viola spp*, *hamamelis spp*,
15 *vinca spp*, *articum spp*, camphor *spp* and *nerium spp*, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

More preferably, the purifying wipe is a tissue impregnated with *calendula officinalis* and at least one other plant extract from the group consisting of; *aloe barbadensis*,
20 *thuya occidentalis*, *articum lappa*, *viola tricolor*, *hamamelis virginiana*, *vinca minor*, camphor and *nerium oleander*, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

More preferably still, the purifying wipe is a tissue impregnated with *calendula officinalis* and *aloe barbadensis* both at 0.01% w/w of said homeopathic mix.
25

In a fourth preferred embodiment of the invention, a skin product is provided, wherein said skin product is a moisturiser for oily skin for use in the mornings, and said moisturiser contains extracts of *calendula officinalis* and at least one other plant
30 extract selected from the group consisting of; *aloe spp*, *thuya spp*, *articum spp*, *viola*

spp, hamamelis spp, vinca spp, articum spp, camphor spp and nerium spp, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

5 More preferably, the moisturiser contains calendula officinalis and at least one other plant extract from the group consisting of; aloe barbadensis, thuya occidentalis, articum lappa, viola tricolor, hamamelis virginiana, vinca minor, camphor and nerium oleander, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

10 More preferably still, the moisturiser contains calendula officinalis and articum lappa both at 0.01% w/w of said homeopathic mix.

15 In a fifth preferred embodiment of the invention, a skin product is provided, wherein said skin product is a moisturiser for oily skin for use in the evenings, and said moisturiser contains extracts of calendula officinalis and at least one other plant extract selected from the group consisting of; aloe spp, thuya spp, articum spp, viola spp, hamamelis spp, vinca spp, articum spp, camphor spp and nerium spp, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

20 More preferably, the moisturiser contains calendula officinalis and at least one other plant extract from the group consisting of; aloe barbadensis, thuya occidentalis, articum lappa, viola tricolor, hamamelis virginiana, vinca minor, camphor and nerium oleander, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

25 More preferably still, the moisturiser contains calendula officinalis and articum lappa both at 0.01% w/w of said homeopathic mix.

30 In a sixth preferred embodiment of the invention, a skin product is provided, wherein said skin product is a moisturiser for dry skin for use in the mornings, wherein said moisturiser contains extracts of at least one plant extract selected from the group

consisting of; calendula spp, aloe spp, thuya spp, articum spp, viola spp, hamamelis spp, vinca spp, articum spp, camphor spp and nerium spp, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

5 More preferably, the moisturiser contains at least one other plant extract from the group consisting of; calendula officinalis, aloe barbadensis, thuya occidentalis, articum lappa, viola tricolor, hamamelis virginiana, vinca minor, camphor and nerium oleander, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

10

More preferably still, the moisturiser contains viola tricolor 0.001% w/w of said homeopathic mix.

In a seventh preferred embodiment of the invention, a skin product is provided, wherein said skin product is a moisturiser for dry skin for use in the evenings, wherein said moisturiser contains extracts of at least one plant extract selected from the group consisting of; calendula spp, aloe spp, thuya spp, articum spp, viola spp, hamamelis spp, vinca spp, articum spp, camphor spp and nerium spp, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

20

More preferably, said moisturiser contains at least one plant extract from the group consisting of; calendula officinalis, aloe barbadensis, thuya occidentalis, articum lappa, viola tricolor, hamamelis virginiana, vinca minor, camphor and nerium oleander, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

25

More preferably still, the moisturiser contains calendula officinalis at 0.01% w/w of said homeopathic mix.

30 In an eighth preferred embodiment of the invention, a skin product is provided, wherein said skin product is an intensive therapy serum, wherein said serum contains

at least one plant extract selected from the group consisting of; calendula spp, aloe spp, thuya spp, articum spp, viola spp, hamamelis spp, vinca spp, articum spp, camphor spp and nerium spp, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

5

More preferably, said serum contains at least one plant extract from the group consisting of; calendula officinalis, aloe barbadensis, thuya occidentalis, articum lappa, viola tricolor, hamamelis virginiana, vinca minor, camphor and nerium oleander, wherein said plant extracts are present at 0.001-0.1% w/w of said homeopathic mix.

10

More preferably still, the serum contains articum lappa, hamamelis virginiana, vinca minor and nerium oleander at 0.01%, 0.01, 0.01 and 0.001% w/w respectively, of said homeopathic mix.

15

According to a second aspect of the invention, we provide the use of a homeopathic level of a plant extract in a skin care product for topical application comprising at least one plant extract present at homeopathic levels.

20 According to a third aspect of the invention, we provide a method of manufacture of a skin care product for topical application, wherein said skin care product comprises at least one plant extract present at homeopathic levels.

25 According to a fourth aspect of the invention, we provide a method of treatment, wherein skin care product comprising at least one plant extract at homeopathic levels is topically applied to the skin to treat the ageing process.

According to a fifth aspect of the invention, we provide a delivery device for the topical delivery of said skin care product to the skin.

30

Preferably this delivery device is a tissue impregnated with calendula spp and aloe spp at levels less than 0.1%w/w of the total homeopathic mix.

5 More preferably this delivery device is a tissue impregnated with calendula officinalis and aloe barbadensis at levels less than 0.01%w/w of the total homeopathic mix.

The invention will now be illustrated by way of example only.

10

15

20

25

30

35

40

EXAMPLE 1: SIMPLE EQUILIBRIUM PURIFYING WIPES

	<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
	ATO000	Aqua (100%)	PURIFIED WATER	81.79000
5	ATO147	Butylene Glycol (100%)	BUTANE-1,3-DIOL	3.00000
	ATO627	Phenoxyethanol (62.5%), Methylparaben (20%), Butylparaben (5%), Ethylparaben (5%), Propylparaben (5%), Isobutylparaben (2.5%)	PHENONIP	0.60000
10				
11	ATO513	Sodium Methylparaben (100%)	NIPAGIN M SODIUM	0.20000
	ATO294	Aqua (62.8%), Cetearyl Isononanoate (15%), Ceteareth-20 (8%), Cetearyl Alcohol (7%), Glyceryl Stearate (3%), Glycerin (3%), Cetyl Palmitate (0.5%), Ceteareth-12 (0.5%), Benzoic Acid (0.2%)	EMULGADE CM	10.00000
15				
20				
	ATO844	Aqua (94.89%), Hamamelis Virginiana (5%), Methylparaben (0.11%)	NON-ALCOHOLIC WITCH HAZEL	3.00000
25	ATO761	Sodium Citrate (100%)	TRISODIUM CITRATE	0.45000
	ATO185	Citric Acid (100%)	CITRIC ACID	0.05000
	ATO553	Citrus Dulcis (46.9%), Lavandula Hybrid (10%), Citrus Limonum (15%)	NATURAL CALM 149173	0.05000

EXAMPLE 1 CONTINUED...

<u>RAW MATERIAL</u>		<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
<u>CODE:</u>				
5		Citrus Aurantium Amara (3%) Pogostemon Cablin (3%) Litsea Cubeba (3%) Citrus Aurantifolia (3%) Lavandula Angustifolia (1%) Pelargonium Graveolens (3%) Coriandrum Sativum (3%) Salvia Sclarea (3%) Juniperus Virginia (3%) Myristica Fragrans (0.5%) Citrus Nobilis (0.5%) Jasminum Grandiflorum (0.5%) Zingiber Officinale (0.1%) Cupressus Sempervirens (0.5%) Ocimum Basilicum (0.5%) Artemisia Vulgaris (0.5%)		
10		Polysorbate 20 (100%)	EUMULGIN SML20 / CRILLET I SUPER	0.50000
15		Aqua (71.1798%), Alcohol (28.8%), Calendula Officinalis (0.01%), Alhe Barbadensis (0.01%), Calcium Sulfate (0.0001%), CI 77268:1 (0.0001%)	HOMOEOPATHIC MIX 3	0.36000
20	ATO196		HOMOEOPATHIC MIX 3	0.36000
25			TOTAL	100.00000

EXAMPLE 2: SIMPLE EQUILIBRIUM WARMING FACE MASK

<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
5	ATO147	BUTANE-1,3-DIOL	24.39000
	ATO133	ACTIPHYTE OF FENNEL GL 100P	2.00000
		PRICERINE 9091 / GLYCERIN BP/USP / GLYCERIN (VEG)	23.00000
	ATO342	ABIL B8832	1.00000
10 13	ATO129	NATURAL CALM 149173	0.05000
	ATO553	Bis-PEG/PPG-20/20 Dimethicone (100%)	
		Citrus Dulcis (46.9%)	
15		Lavandula Hybrida (10%)	
		Citrus Limonum (15%)	
		Citrus Aurantium Amara (3%)	
20		Pogostemon Cablin (3%)	
		Lilsea Cubeba (3%)	
		Citrus Aurantifolia (3%)	
25		Lavandula Angustifolia (1%)	
		Pelargonium Graveolens (3%)	
		Coriandrum Sativum (3%)	
		Salvia Sclarea (3%)	
		Juniperus Virginia (3%)	
		Myristica Fragrans (0.5%)	
		Citrus Nobilis (0.5%)	
		Jasminum Grandiflorum (0.5%)	
		Zingiber Officinalis (0.1%)	
		Cupressus Sempervirens (0.5%)	
		Ocimum Basilicum (0.5%)	
		Artemisia Vulgaris (0.5%)	

5	ATO372	Alcohol (99.9897%), Camphor (0.01%), CI 77268:1 (0.0001%), Calcium Sulfate (0.0001%), Thuya Occidentalis (0.0001%), Kaolin (100%)	HOMOEOPATHIC MIX 2	0.36000
	ATO576	Sodium Silicoaluminate (100%)	OCHRE RED CLAY	0.20000
	ATO522	Com Starch Modified (100%)	MOLECULAR SIEVE 3A POWDER	18.00000
	ATO213	Kaolin (100%)	DRY-FLO AF PURE	6.00000
	ATO421	Paraffinum Liquidum (89.9%), Hydrogenated Butylene/Ethylene/Styrene Copolymer (5%), Hydrogenated Ethylene/Propylene/Styrene Copolymer (5%), BHT (0.1%)	KAOLIN 2747 USP	20.00000
10	ATO809		VERSAGEL M-1600	5.00000
TOTAL				100.0000

EXAMPLE 3: SIMPLE EQUILIBRIUM AM MOISTURISER FOR DRY SKIN

RAW MATERIAL CODE:	INCI ADOPTED NAME:	RAW MATERIAL TRADE NAME:	PERCENT:
ATO000	Aqua (100%)	PURIFIED WATER	62.07250
ATO505	Methylparaben (100%)	NIPAGIN M / METHYL PARABEN USP	0.20000
ATO544	Disodium EDTA (100%)	VERSENE NA2 CRYSTALS / NERVANAID BA2 POWDER	0.10000
ATO631	Propylene Glycol (100%)	MONOPROPYLENE GLYCOL	3.00000
ATO640	Panthenol (75%), Aqua (25%)	D-PANTHENOL 75W	0.35000
20			
25			

ATO702	Sodium Chloride (100%)	SALT PDV	0.50000
ATO117	Cetyl PEG/PPG-10/1 Dimethicone (100%)	ABIL EM90	2.00000
ATO459	Hydrogenated Castor Oil (100%)	LIOVAC 1110	0.50000
ATO172	Cera Alba (100%)	CERABEL BLANCHIE No. 1	0.50000
ATO171	Dicaprylyl Carbonate (100%)	CETIOL CC	12.00000
ATO506	Propylparaben (100%)	NIPASOL M / PROPYL PARABEN USP	0.10000
ATO224	Tocopheryl Acetate (100%)	VITAMIN E ACETATE	0.25000
ATO717	Cyclomethicone (100%)	DOW CORNING 344 FLUID	5.00000
ATO803	Octyl Triazone (100%)	UVINUL T-150	2.00000
ATO622	Butyl Methoxydibenzoylmethane (100%)	PARSOL 1789	2.00000
ATO648	Ethylhexyl Methoxycinnamate (100%)	PARSOL MCX / ESCALOL 557 / NEOHELIPAN TYPE AV	3.00000
ATO275	4-Methylbenzylidene Camphor (100%)	EUSOLEX 6300 / PARSOL 5000	3.00000
ATO143	2-Bromo-2-Nitropropane-1,3-Diol (100%)	MYACIDE PHARMA BP / BRONOPOL	0.03000
ATO321	Terminalia Calappa Leaf Extract (51%), Propylene Glycol (33%), Sambucus Nigra Flower Extract (12.8%), PVP (1%), Tannic Acid (1%), Phenoxyethanol (1.2%)	FIRMIDERM LS 9120	2.00000
ATO137	Aqua (32.9175%), Butylene Glycol (30%), Pyrus Malus (7.5%), Prunus Persica (7.5%), Triticum Vulgare (5%), Hordeum Vulgare (5%), Panax Ginseng (10%), Phenoxyethanol (0.4%), Methylparaben (0.4%), Butylparaben (0.4%), Ethylparaben (0.4%),	BIO-PROTECT	1.00000

Propylparaben (0.4%),
Potassium Sorbate (0.08%),
Sodium Bisulfite (0.0025%)

PRODUCT INFORMATION PACKEXAMPLE 3 CONTINUED:

5	<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
10	ATO553	Citrus Dulcis (46.9%) Lavandula Hybrid (10%) Citrus Limonum (15%) Citrus Aurantium Amara (3%) Pogostemon Cablin (3%) Litsea Cubeba (3%) Citrus Aurantifolia (3%) Lavandula Angustifolia (1%) Pelargonium Graveolens (3%) Coriandrum Sativum (3%) Salvia Sclarea (3%) Juniperus Virginia (3%) Myristica Fragrans (0.5%) Citrus Nobilis (0.5%) Jasminum Grandiflorum (0.5%) Zingiber Officinalis (0.1%) Cupressus Sempervirens (0.5%) Ocimum Basilicum (0.5%) Artemisia Vulgaris (0.5%)	NATURAL CALM 149173	0.03750
20	ATO376	Aqua (71.1976%) Alcohol (28.8%), Potassium Sulfate (0.001%), Sodium Chloride (0.0001%), Silica (0.0001%), CI 77268:1 (0.0001%),	HOMOEOPATHIC MIX 6	0.36000
30				

Viola Tricolor (0.001%),
Petrolatum (0.0001%)

TOTAL 100.0000

5 EXAMPLE 4: SIMPLE EQUILIBRIUM PM MOISTURISER FOR DRY SKIN

RAW MATERIAL CODE:	INCI ADOPTED NAME:	RAW MATERIAL TRADE NAME:	PERCENT:
ATO000	Aqua (100%)	PURIFIED WATER	62.50250
ATO505	Methylparaben (100%)	NIPAGIN M / METHYL PARABEN USP	0.20000
ATO342	Glycerin (100%)	PRICERINE 9091 / GLYCERIN BP/USP / GLYCERIN (VEG)	3.00000
ATO640	Panthenol (75%), Aqua (25%)	D-PANTHENOL 75W	1.35000
ATO711	Sodium Hyaluronate (100%)	SODIUM HYALURONATE	0.02000
ATO100	Allantoin (100%)	ALLANTOIN BPC1934 / ALLANTOIN BP	0.20000
ATO499	Magnesium Sulfate (50%), Aqua (50%)	MAGNESIUM SULFATE HEPTAHYDRATE	0.70000
ATO685	Isohexadecane (100%)	PERMETHYL 101A	5.00000
ATO264	Octyldecanol (100%)	BUTANOL G / ISOFOL 20	5.00000
ATO748	Cetearyl Isononanoate (100%)	TEGOSOFT CI	5.00000
ATO223	Sorbitan Isostearate (60%), Hydrogenated Castor Oil (15%), Cera Alba (15%), Polyglyceryl-3 Ricinoleate (7.5%), Caprylic/Capric Triglyceride (2.5%)	2/01 5085 DRACOSAN W/OP	5.00000

5	ATO717	Cyclomethicone (100%)	DOW CORNING 344 FLUID	6.00000
	ATO506	Propylparaben (100%)	NIPASOL M / PROPYL PARABEN USP	0.10000
	ATO224	Tocopheryl Acetate (100%)	VITAMIN E ACETATE	0.50000
	ATO143	2-Bromo-2-Nitropropane-1,3-Diol (100%)	MYACIDE PHARMA BP / BRONOPOL	0.03000
	ATO321	Terminalia Catappa Leaf Extract (51%), Propylene Glycol (33%), Sanhucus Nigra Flower Extract (12.8%), PVP (1%), Tannic Acid (1%), Phenoxyethanol (1.2%)	FIRMIDERM LS 9120	3.00000
10				
	ATO296	Aqua (38.9%), Ethoxydiglycol (25%), Propylene Glycol (25%), Butylene Glycol (2.5%), Panax Ginseng (5%), Lactic Acid (2.5%), Glucose (0.2%), Citric Acid (0.2%), Sodium Benzoate (0.5%), Potassium Sorbate (0.2%)	2/032861 EXTRAPONE GINSENG-SPECIAL	1.00000
20				
	ATO287	Aqua (96.02%), Butylene Glycol (1.1%), Glycerin (1.1%), Avena Sativa (1%),	DRAGO-BETA-GLUCAN	1.00000
25				
	ATO287	Potassium Sorbate (0.4%), Chlorphenesin (0.19%), Methylparaben (0.19%),	DRAGO-BETA-GLUCAN	1.00000
30				
	ATO553	Citrus Dulcis (46.9%), Lavandula Hybrid (10%), Citrus Limonum (15%), Citrus Aurantium Amara (3%), Pogostemon Cablin (3%), Litsea Cubeba (3%)	NATURAL CALM 149173	0.03750

EXAMPLE 4 CONTINUED....

<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
5	Citrus Aurantifolia (3%) Lavandula Angustifolia (1%) Pelargonium Graveolens (3%) Coriandrum Sativum (3%) Salvia Sclarea (3%) Juniperus Virginia (3%) Myristica Fragrans (0.5%) Citrus Nobilis (0.5%) Jasminum Grandiflorum (0.5%) Zingiber Officinale (0.1%) Cupressus Sempervirens (0.5%) Ocimum Basilicum (0.5%) Artemisia Vulgaris (0.5%)		
10	Aqua (71.1888%), Alcohol (28.8%), Calendula Officinalis (0.01%), Potassium Sulfate (0.001%), CI 77268:1 (0.0001%), Silica (0.0001%)		
15		HOMOEOPATHIC MIX 7	0.36000
20			
			TOTAL 100.0000

EXAMPLE 5: SIMPLE EQUILIBRIUM AM MOISTURISER FOR OILY SKIN

<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
25	Aqua (100%) Carbomer (100%) Methylparaben (100%)	PURIFIED WATER CARBOPOL ETD 2001 NIPAGIN M / METHYL PARABEN USP	71.04750 0.20000 0.20000

EXAMPLE 5 CONTINUED....

<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
5	ATO544 Disodium EDTA (100%)	VERSENE NA2 CRYSTALS / NERVANAID BAZ POWDER	0.10000
	ATO767 Cetearyl Glucoside (100%)	TEGOCARE CG90	1.00000
	ATO205 Coco-Caprylate/Caprate (100%)	CETIOL LC / WAGLINOL 20080	7.00000
	ATO700 Dimethicone (100%)	DOW CORNING 200/100CS FLUID	1.00000
	ATO224 Tocopheryl Acetate (100%)	VITAMIN E ACETATE	0.25000
10	ATO680 Stearic Acid (100%)	PRISTERENE 9559	0.60000
	ATO462 Cetearyl Alcohol (100%)	LAUREX CS	0.60000
	ATO622 Butyl Methoxydibenzoylmethane (100%)	PARSOL 1789	2.00000
	ATO648 Ethylhexyl Methoxycinnamate (100%)	PARSOL MCX / ESCALOL 557 / NEOHELIPAN TYPE AV	3.00000
15	ATO689 Phytosphingosine (100%)	PHYTOSPHINGOSINE	0.02000
	ATO275 4-Methylbenzylidene Camphor (100%)	EUSOLEX 6300 / PARSOL 5000	3.00000
	ATO803 Octyl Triazone (100%)	UVINUL T-150	2.00000
	ATO712 Sodium Hydroxide (100%)	CAUSTIC SODA PEARL	0.05500
	ATO631 Propylene Glycol (100%)	MONOPROPYLENE GLYCOL	3.00000
20	ATO578 Nylon-12 (100%)	ORGASOL 2002 D NAT EXTRA COS	1.50000
	ATO143 2-Bromo-2-Nitropropane-1,3-Diol (100%)	MYACIDE PHARMA BP / BRONOPOL	0.03000
	ATO321 Terminalia Catappa Leaf Extract (51%), Propylene Glycol (33%), Sambucus Nigra Flower Extract (12.8%), PVP (1%), Tartaric Acid (1%),	FIRMIDERM LS 9120	2.00000

EXAMPLE 5 CONTINUED....

<u>RAW MATERIAL</u>		<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
<u>CODE:</u>				
5	ATO137	Phenoxyethanol (1.2%) Aqua (32.9175%), Butylene Glycol (30%), Pyrus Malus (7.5%), Prunus Persica (7.5%), Triticum Vulgare (5%), Hordeum Vulgare (5%), Panax Ginseng (10%), Phenoxyethanol (0.4%), Methylparaben (0.4%), Butylparaben (0.4%), Ethylparaben (0.4%), Propylparaben (0.4%), Potassium Sorbate (0.08%), Sodium Bisulfite (0.0025%)	BIO-PROTECT	1.00000
10				
15				
	ATO137	Citrus Dulcis (46.9%) Lavandula Hybrida (10%) Citrus Limonum (15%) Citrus Aurantium Anara (3%) Pogostemon Cablin (3%) Litsea Cubeba (3%) Citrus Aurantifolia (3%) Lavandula Angustifolia (1%) Pelargonium Graveolens (3%) Coriandrum Sativum (3%) Salvia Sclarea (3%) Juniperus Virginia (3%) Myristica Fragrans (0.5%) Citrus Nobilis (0.5%) Jasminum Grandiflorum (0.5%) Zingiber Officinalis (0.1%) Cupressus Sempervirens (0.5%)	BIO-PROTECT NATURAL CALM 149173	1.00000 0.03750
20	ATO553			
25				
30				
35				

EXAMPLE 5 CONTINUED....

<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
5	Ocimum Basilicum (0.5%) Artemisia Vulgaris (0.5%)		
ATO375	Aqua (71.1797%), Alcohol (28.8%), Calendula Officinalis (0.01%), Arctium Lappa (0.01%), Calcium Sulfate (0.0001%), Petrolatum (0.0001%) Silica (0.0001%)	HOMOEOPATHIC MIX 5	0.36000
10			
		TOTAL	100.0000

23

EXAMPLE 6: SIMPLE EQUILIBRIUM PM MOISTURISER FOR OILY SKIN

<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
15	Aqua (100%)	PURIFIED WATER	75.58250
ATO170	Carbomer (100%)	ULTREZ 10	0.80000
ATO640	Panthenol (75%), Aqua (25%)	D-PANTHENOL 75W	1.00000
20			
ATO711	Sodium Hyaluronate (100%)	SODIUM HYALURONATE	0.02000
ATO503	Methylparaben (100%)	NIPAGIN M / METHYL PARABEN USP	0.20000
ATO100	Allantoin (100%)	ALLANTOIN BPC1934 / ALLANTOIN BP	0.20000
ATO748	Cetaryl Isononanoate (100%)	TEGOSOFT CI	3.00000
25	Glyceryl Stearate (85%),	ARLACEL 165 VS FLAKE	2.50000

EXAMPLE 6 CONTINUED....

	<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
5	ATO462	PEG-100 Stearate (15%)	LAUREX CS	1.50000
	ATO689	Cetearyl Alcohol (100%)	PHYTOSPHINGOSINE	0.02000
	ATO224	Phytosphingosine (100%)	VITAMIN E ACETATE	0.50000
	ATO551	Tocopheryl Acetate (100%)	NEUTROL TE	2.00000
	ATO147	Tetrahydroxypropyl Ethylenediamine (100%)	BUTANE-1,3-DIOL	4.00000
10	ATO578	Butylene Glycol (100%)	ORGASOL 2002 D NAT EXTRA COS	2.00000
	ATO143	Nylon-12 (100%)	MYACIDE PHARMA BP / BRONOPOL	0.03000
14	ATO321	2-Bromo-2-Nitropropane-1,3-Diol (100%)	FIRMIDERM LS 9120	3.00000
15		Terminalia Catappa Leaf Extract (51%), Propylene Glycol (33%), Sambucus Nigra Flower Extract (12.8%), PVP (1%), Tannic Acid (1%), Phenoxyethanol (1.2%)		
20	ATO458	Aqua (47.85%), Sodium Lactate (25%), Sodium PCA (25%), Sodium Benzoate (0.65%), Glycine (0.25%), Fructose (0.25%), Urea (0.25%), Niacinamide (0.25%), Inositol (0.25%), Lactic Acid (0.25%)	LACTIL	2.00000
25		Propylene Glycol (50%), Aqua (37.5%), Ginkgo Biloba (10%), Lactic Acid (1.8%),		
30	ATO293		2/032851 EXTRAPONE GINKGO BILOBA	1.00000

EXAMPLE 6 CONTINUED....

	<u>RAW MATERIAL CODE:</u>	<u>INCI/ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
5	ATO945	Potassium Sorbate (0.2%), Sodium Benzoate (0.5%) Zinc PCA (100%)	ZINCIDONE	0.25000
10	ATO374	Aqua (71.1788%), Alcohol (28.8%), Calendula Officinalis (0.01%), Arctium Lappa (0.01%), Sodium Bicarbonate (0.001%), Calcium Sulfate (0.0001%), Silica (0.0001%)	HOMOEOPATHIC MIX 4	0.36000
15	ATO553	Citrus Dulcis (46.9%) Lavandula Hybrida (10%) Citrus Limonium (1.5%) Citrus Aurantium Amara (3%) Pogostemon Cablin (3%) Litsea Cubeba (3%) Citrus Aurantifolia (3%) Lavandula Angustifolia (1%) Pelargonium Graveolens (3%) Coriandrum Sativum (3%) Salvia Sclarea (3%) Juniperus Virginia (3%) Myristica Fragrans (0.5%) Citrus Nobilis (0.5%) Jasminum Grandiflorum (0.5%) Zingiber Officinalis (0.1%) Cupressus Sempervirens (0.5%)	NATURAL CALM 149173	0.03750
20				
25				
30				

Ocimum Basilicum (0.5%)	
Artemisia Vulgaris (0.5%)	
TOTAL	100.0000

5

EXAMPLE 7: SIMPLE EQUILIBRIUM CLEANSING BALM

<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
10	ATO461 Paraffinum Liquidum (100%)	BLANDOL BP/USP / SIRIUS M85 WHITE / FINA VESTAN A80B	6.29000
	ATO809 Paraffinum Liquidum (89.9%), Hydrogenated Butylene/Ethylene/Styrene Copolymer (5%), Hydrogenated Ethylene/Propylene/Styrene Copolymer (5%), BHT (0.1%)	VERSAGEL M-1600	25.00000
15	ATO707 Stearyl Alcohol (100%)	HYFATOL 1895 / LOROL C18/STEARYL ALCOHOL	2.00000
	ATO169 Petroleum Hydrocarbon (100%)	CERAFINE 56-58	20.00000
	ATO134 C12-15 Alkyl Benzoate (100%)	CRODAMOL AB / LINCOL BAS	4.00000
20	ATO840 Petrolatum (100%)	WHITE PETROLEUM JELLY 895 / MERKUR 584 WHITE PETROLEUM JELLY	15.00000
	ATO524 Linmanthes Alba (100%)	MEADOWFOAM SEED OIL	1.00000
	ATO748 Cetearyl Isononanoate (100%)	TEGOSOFT CI	10.00000
	ATO264 Octyldecanol (100%)	EUTANOL G / ISOFOL 20	10.00000
	ATO213 Corn Starch Modified (100%)	DRY-FLO AF PURE	1.00000
25	ATO627 Phenoxethanol (62.5%), Methylparaben (20%),	PHENONIP	0.30000

EXAMPLE 7 CONTINUED....

	<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
5		Butylparaben (5%), Ethylparaben (5%), Propylparaben (5%), Isobutylparaben (2.5%)		
	ATO639	PEG-8 Dilaurate (100%)	PEG 400-DILAURATE	5.00000
10	ATO553	Citrus Dulcis (46.9%) Lavandula Hybrida (10%) Citrus Limonum (15%) Citrus Aurantium Amara (3%) Pogostemon Cablin (3%) Litsea Cubeba (3%) Citrus Aurantifolia (3%) Lavandula Angustifolia (1%) Pelargonium Graveolens (3%) Coriandrum Sativum (3%) Salvia Sclarea (3%) Juniperus Virginia (3%) Myristica Fragrans (0.5%) Citrus Nobilis (0.5%) Jasminium Grandiflorum (0.5%) Zingiber Officinale (0.1%) Cupressus Sempervirens (0.5%) Ocimum Basilicum (0.5%) Artemisia Vulgaris (0.5%)	NATURAL CALM 149173	0.05000
20		Alcohol (99.9898%), Calendula Officinalis (0.01%),	HOMOEOPATHIC MIX I	0.36000
25				
30				

EXAMPLE 7 CONTINUED:

<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
5	ATO371 Thuya Occidentalis (0.0001%), Calcium Sulfate (0.0001%)	HOMOEOPATHIC MIX 1	0.36000

EXAMPLE 8: SIMPLE EQUILIBRIUM INTENSIVE THERAPY SERUM

<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
10	ATO000 Aqua (100%)	PURIFIED WATER	82.45750
	ATO176 Carbomer (100%)	CARBOPOL ETD 2001	0.30000
	ATO147 Butylene Glycol (100%)	BUTANE-1,3-DIOL	3.00000
	ATO640 Panthenol (75%), Aqua (25%)	D-PANTHENOL 75W	1.30000
15	ATO711 Sodium Hyaluronate (100%)	SODIUM HYALURONATE	0.02000
	ATO505 Methylparaben (100%)	NIPAGIN M / METHYL PARABEN USP	0.10000
	ATO100 Allantoin (100%)	ALLANTOIN BPC1934 / ALLANTOIN BP	0.20000
20	ATO234 Divinyldimethicone/Dimethicone Copolymer (61%), C12-13 Pareth-3 (1.5%), C12-13 Pareth-23 (2%),	DC HMW 2220 NON-IONIC EMULSION	5.00000

EXAMPLE 8 CONTINUED:

	<u>RAW MATERIAL CODE:</u>	<u>INCL ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
5		Phenoxyethanol (1%), Iodopropynyl Butylcarbamate (0.008%), Aqua (34.492%)		
	ATO351	Tetrahydroxypropyl Ethylenediamine (100%)	NEUTROL TE	0.50000
	ATO804	Retinyl Palmitate (100%)	VITAMIN A PALMITATE	0.10000
	ATO224	Tocopheryl Acetate (100%)	VITAMIN E ACETATE	0.50000
10	ATO255	Bisabolol (100%)	ALPHA-BISABOLOL - RAC. / DRAGOSANTOL 2/012681	0.10000
	ATO321	Terrinalia Catappa Leaf Extract (51%), Propylene Glycol (33%), Sambucus Nigra Flower Extract (12.8%), PVP (1%), Tannic Acid (1%), Phenoxyethanol (1.2%)	FIRMIDERM LS 9120	2.00000
15				
20	ATO727	Aqua (86.399%), Ceramide 3 (1%), Ceramide 6-II (0.5%), Ceramide 1 (0.001%), Phytosphingosine (0.5%), Cholesterol (0.5%), Sodium Lauryl Lactylate (10%), Carbomer (0.3%), Xanthan Gum (0.3%), Methylparaben (0.3%), Propylparaben (0.2%)	SK-INFLUX	3.00000
25				
30	ATO287	Aqua (96.02%), Butylene Glycol (1.1%), Glycerin (1.1%), Avena Sativa (1%)	DRAGO-BETA-GLUCAN	1.00000

EXAMPLE 8 CONTINUED:

	<u>RAW MATERIAL CODE:</u>	<u>INCI ADOPTED NAME:</u>	<u>RAW MATERIAL TRADE NAME:</u>	<u>PERCENT:</u>
5		Potassium Sorbate (0.4%) Chlorphenesin (0.19%), Methylparaben (0.19%),		
10	ATO553	Citrus Dulcis (46.9%) Lavandula Hybrid (10%) Citrus Limonum (15%) Citrus Aurantium Amara (3%) Pogostemon Cablin (3%) Litsea Cubeba (3%) Citrus Aurantiifolia (3%) Lavandula Angustifolia (1%) Pelargonium Graveolens (3%) Coriandrum Sativum (3%) Salvia Sclarea (3%) Juniperus Virginia (3%) Myristica Fragrans (0.5%) Citrus Nobilis (0.5%) Jasminum Grandiflorum (0.5%) Zingiber Officinalis (0.1%) Cupressus Sempervirens (0.5%) Ocimum Basilicum (0.5%) Artemisia Vulgaris (0.5%)	NATURAL CALM 149173	0.03750
20		2-Bromo-2-Nitropropane-1,3-Diol (100%)	MYACIDE PHARMA BP / BRONOPOL	0.02500
25	ATO143	Aqua (71.1689%), Alcohol (28.8%), Hamamelis Virginiana (0.01%), Vinca Minor (0.01%), Arctium Lappa (0.01%), Nerium Oleander (0.001%), Juglans Regia (0.0001%)	HOMOEOPATHIC MIX 8	0.36000
30	ATO378			

CLAIMS

1. A skin care product comprising at least one plant extract characterised in that said plant extract is present at less than homeopathic levels.
5
2. A skin care product according to claim 1, wherein said plant extract is a component of a homeopathic mix, wherein said homeopathic mix constitutes less than 1% w/w of said skin care product.
- 10 3. A skin care product according to claim 2, wherein said homeopathic mix constitutes less than 0.5% of said skin care product.
4. A skin care product according to claim 3, wherein said homeopathic mix constitutes 0.38% w/w of said skin care product.
15
5. A skin care product according to claim 1 wherein said plant extract is present at a homeopathic level of less than 0.1% w/w of said homeopathic mix.
6. A skin care product according to claim 5, wherein said homeopathic level is
20 in the range of 0.0001% - 0.1% w/w of said homeopathic mix.
7. A skin care product according to claim 1, wherein said plant extracts are selected from the group comprising; calendula spp, aloe spp, thuya spp, articum spp, viola spp, hamamelis spp, vinca spp, articum spp, camphor spp and nerium spp.
25
8. A skin care product according to claim 7 wherein said calendula spp is calendula officinalis.
9. A skin care product according to claim 8, wherein calendula officinalis is
30 present at a level of 0.0001-0.1% w/w of said homeopathic mix.

10. A skin care product according to claim 9, wherein calendula officinalis is present at a level of 0.1% w/w of said homeopathic mix.
- 5 11. A skin care product according to claim 7, wherein the aloe spp is aloe barbadensis.
12. A skin care product according to claim 11, wherein aloe barbadensis is present at a level of 0.0001-0.1% w/w of said homeopathic mix.
- 10 13. A skin care product according to claim 12, wherein aloe barbadensis is present at a level of 0.1% w/w of said homeopathic mix.
14. A skin care product according to claim 7, wherein the thuya spp is thuya occidentalis.
- 15 15. A skin care product according to claim 14, wherein thuya occidentalis is present at a level of 0.0001-0.1% w/w of said homeopathic mix.
16. A skin care product according to claim 15, wherein thuya occidentalis is present at a level of 0.0001% w/w of said homeopathic mix.
- 20 17. A skin care product according to claim 7, wherein the articum spp is articum lappa.
- 25 18. A skin care product according to claim 17, wherein articum lappa is present at a level of 0.0001-0.1% w/w of said homeopathic mix.
19. A skin care product according to claim 18, wherein articum lappa is present at a level of 0.1% w/w of said homeopathic mix.

30

20. A skin care product according to claim 7, wherein the *viola* spp is *viola tricolor*.
21. A skin care product according to claim 20, wherein *viola tricolor* is present at a level of 0.0001-0.1% w/w of said homeopathic mix.
22. A skin care product according to claim 21, wherein *viola tricolor* is present at a level of 0.001% w/w of said homeopathic mix.
23. A skin care product according to claim 7, wherein camphor is present at a level of 0.0001-0.1% w/w of said homeopathic mix.
24. A skin care product according to claim 23, wherein camphor is present at a level of 0.01% w/w of said homeopathic mix.
25. A skin care product according to claim 7, wherein said plant extract is selected from *hamamelis virginiana*, *vinca minor*, *articum lappa* and *nerium oleander*.
26. A skin care product which comprises a plurality of plant extracts.
27. A skin care product according to claim 26, wherein the plant extract component comprises an extract from a *calundula* spp in combination with an extract selected from the group consisting *aloe* spp, *thuya* spp, *articum* spp, *viola* spp, *hamamelis* spp, *vinca* spp, *articum* spp, camphor spp and *nerium* spp, wherein individual extracts are present at less than 0.1% of said homeopathic mix.
28. A skin care product according to claim 27, wherein *calendula officinalis* is in combination with an extract selected from the group consisting *aloe* spp, *thuya* spp, *articum* spp, *viola* spp, *hamamelis* spp, *vinca* spp, *articum* spp, camphor spp and *nerium* spp, wherein individual extracts are present at less than 0.1% of said mix .

29. A skin care product according to claim 28, wherein said *calendula officinalis* is in combination with *thuya occidentalis*.
30. A skin care product according to claim 29, wherein said *calendula officinalis* and *thuya occidentalis* extracts are present at between 0.0001-0.1% w/w of said homeopathic mix.
31. A skin care product according to claim 30, wherein said *calendula officinalis* is present at 0.01% w/w and said *thuya occidentalis* extract is present at 0.0001% w/w of said homeopathic mix.
32. A skin care product according to claim 28, wherein *calendula officinalis* is in combination with *aloe barbadensis*.
33. A skin care product according to claim 32, wherein said *calendula officinalis* and said *aloe barbadensis* extracts are present at between 0.01%-0.1% w/w of said homeopathic mix.
34. A skin care product according to claim 33, wherein said *calendula officinalis* and said *aloe barbadensis* extracts are present at 0.01% w/w of said homeopathic mix.
35. A skin care product according to claim 28, wherein *calendula officinalis* is in combination with *articum lappa*.
36. A skin care product according to claim 35, wherein said *calendula officinalis* and said *articum lappa* extracts are present at between 0.01%-0.1% w/w of said homeopathic mix.
37. A skin care product according to claim 36, wherein said *calendula officinalis* and said *articum lappa* extracts are present at 0.01%w/w of said homeopathic mix.

38. A skin care product according to claim 26, wherein said plant extract comprises an extract from a thuya spp in combination with an extract selected from the group consisting calendula spp, aloe spp, articum spp, viola spp, hamamelis spp,
5 vinca spp, articum spp, camphor spp and nerium spp, wherein individual extracts are present at less than 0.1% w/w of said homeopathic mix.

39. A skin care product according to claim 38, wherein said thuya extract is thuya occidentalis.
10

40. A skin care product according to claim 39, wherein said thuya occidentalis is in combination with camphor.

41. A skin care product according to claim 40, wherein said thuya occidentalis and said camphor extracts are present at between 0.0001%-01% w/w of said
15 homeopathic mix.

42. A skin care product according to claim 41, wherein said thuya occidentalis is present at 0.0001% w/w and said camphor extracts is present at 0.1% w/w of said
20 homeopathic mix.

43. A skin care product according to claim 26, wherein the plant extract comprises a combination of at least 2 selected from the following group; hamamelis virginiana, vinca minor, articum lappa and nerium oleander.
25

44. A skin care product according to claim 43, wherein the plant extract comprises hamamelis virginiana, vinca minor, articum lappa and nerium oleander present between 0.0001-0.1% w/w of said homeopathic mix.

45. A skin care product according to claim 44, wherein the plant extract comprises hamamelis virginiana at 0.01% w/w, vinca minor at 0.01% w/w, articum lappa at 0.01% w/w and nerium oleander at 0.001% w/w of said homeopathic mix.
- 5 46. A skin care product according to claim 1, wherein said skin care product is a skin cleanser.
47. A skin care product according to claim 46, wherein said skin cleanser is a cleansing balm.
- 10 48. A skin care product according to claim 47, wherein said cleansing balm contains at least one plant extracts according to claim 26.
49. A skin care product according to claim 48, wherein said the plant extracts are
15 calendula officinalis and thuya occidentalis according to claims 29-31.
50. A skin care product according to claim 1, wherein said skin care product is a skin moisturiser.
- 20 51. A skin care product according to claim 50, wherein said skin moisturiser is for dry skin.
52. A skin care product according to claim 50, wherein said skin moisturiser is for oily skin.
- 25 53. A skin care product according to claim 51, wherein said moisturiser for dry skin contains at least one plant extract according to claim 26.
54. A skin care product according to claim 53, wherein said plant extract is from
30 a calendula spp according to claims 8-10.

55. A skin care product according to claim 53, wherein said plant extract is from a viola spp according to claims 20-22.

56. A skin care product according to claim 52, wherein said skin moisturiser for oily skin contains at least one plant extract according to claim 26.

57. A skin care product according to claim 56, wherein said plant extracts are calendula spp and articum spp according to claims 35-37.

58. A skin care product according to claim 1, wherein said skin care product is a face mask.

59. A skin care product according to claim 58, wherein said face mask contains at least one plant extract according to claim 26.

60. A skin care product according to claim 59, wherein said plant extracts are camphor spp and thuya spp according to claims 40-42.

61. A skin care product according to claim 1, wherein said skin care product is a tissue impregnated with at least one plant extract according to claim 26.

62. A skin care product according to claim 61 wherein said tissue is impregnated with calendula spp and aloe spp according to claims 32-34.

63. A skin care product according to claim 1, wherein said skin care product is a serum containing at least one plant extract according to claim 26.

64. A skin care product according to claim 63, wherein said serum contains hamamelis spp, vinca spp, articum spp and nerium spp according to claims 43-45.

65. The use of homeopathic levels of plant extracts in the manufacture of skin care products for topical application according to claim 1.

66. A method of manufacture of a skin care product for topical application,
5 wherein said skin care product comprises at least one plant extract present at homeopathic levels according to claim 1.

67. A method of treatment, wherein said skin care product according to claim 1 is topically applied to the skin to treat the ageing process.

10

68. A delivery device for the topical delivery of said skin care product to the skin.

69. A delivery device according to claim 68, wherein said delivery device is a tissue impregnated with calendula spp and aloe spp at levels less than 0.1%w/w of
15 said homeopathic mix.

70. A delivery device according to claim 69, wherein said delivery device is a tissue impregnated with calendula officinalis and aloe barbadensis at levels less than 0.01%w/w of said homeopathic mix.

20

71. A skin care product containing at least one plant extract at a homeopathic level, substantially as described with reference to the accompanying examples.

25

30

35

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 September 2003 (18.09.2003)

PCT

(10) International Publication Number
WO 03/075862 A3

(51) International Patent Classification⁷: **A61K 7/48**

(21) International Application Number: **PCT/GB03/00993**

(22) International Filing Date: **10 March 2003 (10.03.2003)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
0205504.4 **8 March 2002 (08.03.2002)** **GB**

(71) Applicant (*for all designated States except US*): **ACCANTIA HOLDINGS LIMITED** [GB/GB]; Alum Rock Road, Birmingham B8 3DZ (GB).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **HEBDITCH, Paul** [GB/GB]; 3 Elizabeth Way, Uppingham, Rutland LE15 RPQ (GB). **CHISHOLM, Helen** [GB/GB]; 8 Rockingham Road, Cottingham, Leicestershire LE15 8XS (GB).

(74) Agent: **HARRISON GODDARD FOOTE**; 31 St. Saviourgate, York YO1 8NQ (GB).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
11 December 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **FORMULATION**

(57) Abstract: There is described a skin care product comprising at least one plant extract characterised in that said plant extract is present at less than homeopathic levels.

WO 03/075862 A3

INTERNATIONAL SEARCH REPORT

PCT/GB 03/00993

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K7/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 351 766 A (BOERNER HARRO MED KOMMUNIKAT) 24 January 1990 (1990-01-24) example 9	1-6, 50-52, 65-67
X	DE 198 53 919 A (WIRTH WOLFGANG) 25 May 2000 (2000-05-25) the whole document	1-6, 65, 66
X	FR 2 571 256 A (CHICOURI MARCEL) 11 April 1986 (1986-04-11) page 1, line 23 - line 26	1-6, 65, 66
X	FR 2 739 027 A (REVEILLAUD MICHELE) 28 March 1997 (1997-03-28) the whole document	1-6, 65, 66
	--- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

8 August 2003

Date of mailing of the international search report

09/09/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Fischer, J.P.

INTERNATIONAL SEARCH REPORT

PCT/GB 03/00993

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 795 573 A (PARADISE LOU) 18 August 1998 (1998-08-18) the whole document ---	1-6, 65, 66
X	US 6 207 163 B1 (HIBBERT LEONIE JENNIFER ET AL) 27 March 2001 (2001-03-27) the whole document ---	1-6, 50-52, 65-67
X	FR 2 666 228 A (ROUX NICOLE ;ROUX JEAN MARC (FR)) 6 March 1992 (1992-03-06) the whole document ---	1-7, 25, 65-67
X	FR 2 618 677 A (BESNOUIN DIDIER) 3 February 1989 (1989-02-03) the whole document ---	1-7, 14-16, 65, 66
X	EP 0 569 667 A (AHMAD KHALIL) 18 November 1993 (1993-11-18) the whole document ---	1-6, 65, 66
X	DE 196 22 708 A (TOMIC DOBRIVOJE) 11 December 1997 (1997-12-11) page 2, line 21 - line 33; claims 1-9; example 4 ---	1-10, 25-28, 65, 66
X	EP 0 279 382 A (LUNEMANN BRIGITTE) 24 August 1988 (1988-08-24) the whole document ---	1-6, 65, 66
X	DE 43 13 383 A (TRAUNBAUER ADOLF ;TRAUNBAUER EDITH (DE)) 27 October 1994 (1994-10-27) the whole document ---	1-6, 65, 66
X	FR 2 695 318 A (METSADA ALBERT) 11 March 1994 (1994-03-11) the whole document ---	1-6, 65-67
P, X	WO 02 060398 A (COLEMAN GEORGE) 8 August 2002 (2002-08-08) claims 1-14 ---	1-7, 25
X	DR. RUTH LEVER: "The homeopathic treatment of skin conditions" MIDWIFE, HEALTH VISITOR & COMMUNITY NURSE, vol. 21, no. 4, April 1985 (1985-04), page 134 XP008020453 the whole document ---	1-8, 50-54, 65-67

-/--

INTERNATIONAL SEARCH REPORT

PCT/GB 03/00993

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 199644 Derwent Publications Ltd., London, GB; Class B04, AN 1996-441498 XP002250710 & RU 2 053 265 C (LOENKO YU N), 27 January 1996 (1996-01-27) abstract	1-6, 65, 66
X	DATABASE MEDLINE 'Online! US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; VERBUTA ET AL.: "Research to achieve a homeopathic lotion" Database accession no. NLM9455422 XP002250708 abstract	1-8, 65, 66
X	DATABASE MEDLINE 'Online! US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; HILL ET AL.: "The efficacy of pRRRikweg gel in the treatment of insect bites: a double-blind, placebo-controlled clinical trial" Database accession no. NLM8861830 XP002250709 abstract	1-7, 65, 66

INTERNATIONAL SEARCH REPORT

PCT/GB 03/00993

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0351766	A	24-01-1990	DE 3824370 A1 EP 0351766 A2	25-01-1990 24-01-1990
DE 19853919	A	25-05-2000	DE 19853919 A1	25-05-2000
FR 2571256	A	11-04-1986	FR 2571256 A2	11-04-1986
FR 2739027	A	28-03-1997	FR 2739027 A1 WO 9711679 A1	28-03-1997 03-04-1997
US 5795573	A	18-08-1998	NONE	
US 6207163	B1	27-03-2001	AT 195874 T AU 3601395 A WO 9611015 A1 CA 2201115 A1 CN 1160353 A DE 69518655 D1 DE 69518655 T2 DK 783315 T3 EP 0783315 A1 ES 2151609 T3 GR 3034935 T3 JP 10509133 T NZ 293541 A PT 783315 T RU 2153883 C2	15-09-2000 02-05-1996 18-04-1996 18-04-1996 24-09-1997 05-10-2000 03-05-2001 18-12-2000 16-07-1997 01-01-2001 28-02-2001 08-09-1998 26-08-1998 31-01-2001 10-08-2000
FR 2666228	A	06-03-1992	FR 2666228 A1	06-03-1992
FR 2618677	A	03-02-1989	FR 2618677 A1 AT 78168 T AU 2135688 A CA 1327318 C CN 1031654 A DE 3872881 D1 DE 3872881 T2 EP 0378549 A1 ES 2013342 A6 WO 8900858 A1 JP 2504389 T NZ 225640 A PT 88145 A ,B ZA 8805590 A	03-02-1989 15-08-1992 01-03-1989 01-03-1994 15-03-1989 20-08-1992 04-03-1993 25-07-1990 01-05-1990 09-02-1989 13-12-1990 28-11-1989 30-06-1989 28-03-1990
EP 0569667	A	18-11-1993	DE 4204255 A1 DE 4207636 A1 DE 4216269 A1 DE 4218209 A1 DE 4221818 A1 DE 4234616 A1 DE 4238509 A1 EP 0569667 A2 DE 4212885 A1 DE 4330597 A1 DE 4312109 A1	19-08-1993 16-09-1993 10-02-1994 21-04-1994 30-06-1994 01-09-1994 19-05-1994 18-11-1993 25-11-1993 16-03-1995 20-10-1994
DE 19622708	A	11-12-1997	DE 19622708 A1	11-12-1997

INTERNATIONAL SEARCH REPORT

PCT/GB 03/00993

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 19622708	A	AT 234105 T	15-03-2003
		AU 3170997 A	05-01-1998
		BR 9709539 A	10-08-1999
		CA 2257559 A1	11-12-1997
		DE 19780509 D2	05-08-1999
		DE 59709512 D1	17-04-2003
		WO 9746246 A1	11-12-1997
		EP 0914138 A1	12-05-1999
		JP 2000514414 T	31-10-2000
EP 0279382	A	DE 3705151 A1	01-09-1988
		AT 65915 T	15-08-1991
		DE 3864034 D1	12-09-1991
		EP 0279382 A2	24-08-1988
		US 5006338 A	09-04-1991
DE 4313383	A	DE 4313383 A1	27-10-1994
FR 2695318	A	IL 103101 A	18-03-1997
		FR 2695318 A1	11-03-1994
		US 5384123 A	24-01-1995
WO 02060398	A	WO 02060398 A1	08-08-2002
RU 2053265	C	RU 2053265 C1	27-01-1996